Doc code: IDS Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-09)
Approved for use through 03/31/2009. OMB 0651-0031
Ormation Disclosure Statement (IDS) Filed
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		10697557
	Filing Date		2003-10-31
INFORMATION DISCLOSURE	First Named Inventor	Theod	dore Rappaport
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2128
(Not for Submission under 67 of K 1.00)	Examiner Name	Akas	h Saxena
	Attorney Docket Number		001.0128C1D1

		Remove				
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6754488	B1	2004-06-22	Won et al	
	2	6772103	B1	2004-08-03	King	
	3	6785547	B1	2004-08-31	Heiska et al	
	4	6791571	B1	2004-09-14	Lamb	
	5	6795858	B1	2004-09-21	Jain et al	
	6	6804578	B1	2004-10-12	Ghaffari	
	7	6901051	B1	2005-05-31	Hou et al	
	8	6931364	B1	2005-08-16	Anturna	

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theod	dore Rappaport
Art Unit		2128
Examiner Name	Akas	h Saxena
Attorney Docket Numb	er	001.0128C1D1

utton. Add
ONS Remove
Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
(

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theod	dore Rappaport
Art Unit		2128
Examiner Name	Akas	h Saxena
Attorney Docket Numb	er	001 0128C1D1

2	20020023244	A1	2002-02-21	Hatanaka et al	
3	20020028681	A1	2002-03-07	Lee et al	
4	20020030600	A1	2002-03-14	Starner et al	
5	20020046259	A1	2002-04-18	Glorikian	
6	20020075825	A1	2002-06-20	Hills et al	
7	20020082859	A1	2002-06-27	Lancos et al	
8	20020095486	A1	2002-07-18	Bahl	
9	20020177982	A1	2002-11-28	Boulouednine et al	
10	20030023411	A1	2003-01-30	Witmer et al	
11	20030050878	A1	2003-03-13	Rappaport et al	
12	20030229478	A1	2003-12-11	Rappaport et al	

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theod	dore Rappaport
Art Unit		2128
Examiner Name	Akas	h Saxena
Attorney Docket Numb	er	001 0128C1D1

13	20030232598	A1	2003-12-18	Aljadeff et al	
14	20040002364	A1	2004-01-01	Trikkonen et al	
15	20040017790	A1	2004-01-29	del Prado et al	
16	20040038683	A1	2004-02-26	Rappaport et al	
17	20040072577	A1	2004-04-15	Myllymaki et al	
18	20040077359	A1	2004-04-22	Bernas et al	
19	20040090943	A1	2004-05-13	da Costa et al	
20	20040133415	A1	2004-07-08	Rappaport et al	
21	20040143428	A1	2004-07-22	Rappaport et al	
22	20040202196	A1	2004-10-14	Sindhushayana et al	
23	20040211888	A1	2004-10-28	Shur et al	

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theod	dore Rappaport
Art Unit		2128
Examiner Name	Akas	h Saxena
Attorney Docket Numb	er	001.0128C1D1

	24	20050253751	A1	2005-11	-1 7	Feisst et al					
If you wisl	n to ac	ld additional U.S. Publi	shed Ap	plication	ı citatio	n information p	lease click the Add	buttor	n. Add		
FOREIGN PATENT DOCUMENTS Remove											
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	y	Kind Code ⁴	Publication	Name of Patentee Applicant of cited Document	or	where Rel	or Relevant	T5
	1										
If you wisl	n to ac	dd additional Foreign Pa	atent Do	cument	citation	information pl	ease click the Add	button	Add		
			NON	N-PATEN	NT LITE	RATURE DO	CUMENTS		Remove		
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.								T5	
	1	SKIDMORE, "SMT Plus 1.0 user's manual", August 1996.									
	2	ZHANG, "Formulation of multiple diffraction by trees and buildings for radio propagation predictions for local multipoint distribution service", J. Res. Natl. Inst. Stand. Technol., 1999.									
	3	FELLNER, D., "Radio wave propagation (CARPET)", Computer Graphics, Dept. of Computer Science, 1998.									
	4	RAPPAPORT et al., "The future of wireless communications", MPRG, 1999.									
	5	ULFFE et al., "Measuring	g the 2.4	GHz Ban	nd for inc	loor wireless co	mmunications", Wirel	ess des	sign laborato	ory, 2000.	

Application Number		10697557		
Filing Date		2003-10-31		
First Named Inventor	Theod	dore Rappaport		
Art Unit		2128		
Examiner Name Akas		h Saxena		
Attorney Docket Number		001.0128C1D1		

6	HASHEMI, H., "The indoor radio propagation channel", IEEE. Vol. 81, No. 7, July 1993.	
7	LIU et al., "Modelling microcellular radio wave propagation", IEEE, May 1996.	
8	FELLNER, et al., "MRT - A tool for simulations in 3D geometric domains", ESM, 1997.	
9	STAMM et al., "A prototype system for light propagation in terrains", IEEE, 1998.	
10	"EAC-50 Repeater System for In-Building Coverage", Installation and Operation Manual, Allen Telecom Company, 2000 (Referred to as EAC-50).	
11	RAPPAPORT, T.,et al., "Site Plannner 3.0, User's Manual", Wireless Valley Communications, Inc. 1998.	
12	BERTONI, H.,et al., "UHF Propagation Prediction for Wireless Personal Communications", Proceeding of IEEE, VOL. 82, No. 9, Sept. 1994, pp. 1333-1359	
13	HONCHARENKO, W., et al., "Mechanisms Governing UHF Propagation on Single Floors in Modern Office Buildings", IEEE Transactions on Vehicular Technology, Vol. 41, NO. 4, November 1992, pp. 496-504	
14	"SMT Plus: Site Modeling Tool. A Software Tool for Planning Indoor Wireless Systems." 2001. Printed from http://www.mprg.org/research/smt/smt.shtml on 3/5/04.	
15	"MPRG Industrial Affiliate Program." 2001 Printed from http://www.mprg.org/partnerships/affiliate.shtml on 3/5/04.	
16	"Wireless Research Leads to Indoor Planning Tool," EE Connection, Feb. 1997. Printed from http://w.ecpe.vt.edu/ecenews/feb97/smt.html on 3/5/04.	

Application Number		10697557	
Filing Date		2003-10-31	
First Named Inventor	Theod	Theodore Rappaport	
Art Unit		2128	
Examiner Name	Akash Saxena		
Attorney Docket Number		001.0128C1D1	

17	"VTIP Disclosure No.: 96-013." Virginia Tech Intellectual Properties, Inc. 1997-2001. Printed from http://www.vtip.org/licensing/disclosures/96-0 3.htm on 3/5/04.	
18	"Communication Products Special Section." EDN Access, Aug. 1, 1996. Printed from http://www.e-insite. net/ednmag/archives/l996/080196/16dfl.htm on 3/5/04.	
19	PANJWANI et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments." IEEE Journal of Selected Areas in Communication. April 1996. pp.420-430.	
20	SKIDMORE et al. "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multifloored Indoor Environments: SMT Plus." 5th Int'l Conference on Universal Personal Communications, Sept.29 - Oct.2, 1996. pp.646-650	
21	SKIDMORE et at. "A Comprehensive In-Building and Microcellular Wireless Communication System Design Tool." The Bradley ,- Dept. of Electrical Engineering, Virginia Tech Univ. MPRG-TR-97-13. June 1997.	
22	VALENZUELA, R A., "A ray tracing approach to predicting Indoor Wireless Transmission", IEEE 1993	
23	SANTARINI, M., EETimes article "Cadence offers XML-based PCB library tool" , Published 04/24/2000 Pgs. 1-4, http://www.eetimes.com/story/OEG20000424S0031	
24	WELCH, B.,et all., "Web Enabling Applications" Fifth Annual Tcl/Tk Workshop USENIX, 1997, Pp. 189-190 of the Proceedings (4 pg. printout from web)	
25	Website "WiSE Design of Indoor & Outdoor Wireless Systems" - http://web.archive.org/webl200212190834211 www. belllabs.comlorglwireless1wisext.html - Dec 2002	
26	FORTUNE, S.,et al., "WISE design of indoor wireless systems: practical computation and optimization", Publication. Date: Spring 1995 Volume: 2 , Issue: 1 pgs 58 - 68	
27	HANSEN, W., "Rendering Tcl/TK windows as HTML"; March 5 2003 - Carnegie Mellon University	

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theodore Rappaport	
Art Unit		2128
Examiner Name	Akash Saxena	
Attorney Docket Number		001.0128C1D1

28	LANDRON, O, et al., "A comparison of theoretical and empirical reflection coefficients for typical exterior wall surfaces in a mobile radio environment, Antennas and Propagation", IEEE Transactions pgs, 341-351, Vol. 44, Issue: 3, Mar 1996	
29	VALENZULA, R., et al., "Estimating local mean signal strength of indoor multipath propagation", Vehicular Technology, IEEE Transactions , pgs 203-212, Volume: 46, Issue: 1, Feb 1997	
30	SKIDMORE et al. "Towards Integrated PSEs for Wireless Communications: Experiences with the S4W and SitePlanner Projects". October 28, 2003.	
31	SKIDMORE. et al. "Towards Integrated PSEs for Wireless Communications: Experiences with the S4W and SitePlanner Projects". ACM SIGMOBILE Mobile Computing and Communications Review. Vol.8, Issue 2. April 2004. pp.20-34.	
32	EDX, "Mircocell/Indoor Module", April 2000. pg.1-63.	
33	Trademark, "Siteplanner" 1999. pg.1	
34	NEWHALL, W.G., "Wideband Propagation Measurement Results, Simulation Models, and Processing Techniques for a Sliding Correlator Measurement System". Dissertation. pg.1-159.	
35	RAPPAPORT, T.S., "Last-Mile Wireless Propagation Modeling, Measurment, & Prediction" HP. 1998. pg.1-20.	
36	EDX Signal Pro. 1996. pg. 1-13.	
37	EDX Data File Format Specifications. July 2001 pg.1-24.	
38	BORST, S., et al., "Wireless Simulation and Self-organizing Spectrum Management" Bell Labs Technical Journal. 1997 pg.81-98.	

Application Number		10697557		
Filing Date		2003-10-31		
First Named Inventor	Theod	Theodore Rappaport		
Art Unit		2128		
Examiner Name	Akash Saxena			
Attorney Docket Number		001.0128C1D1		

	39	Cambridge Rese	mbridge Research Associates: "Synthetic Vision Systems" 1999 pg.1-31				
	HUANG, Y.P., "Triangular Irregular Network Generation and Topographical Modeling", 1989 Computers-In-Industry. vol.12, no.3, pg.203-213.						
If you wish to add additional non-patent literature document citation information please click the Add button Add							
EXAMINER SIGNATURE							
Examiner	Examiner Signature Date Considered						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.							